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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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20322	7590	07/13/2006	EXAMINER	
SNELL & WILMER ONE ARIZONA CENTER 400 EAST VAN BUREN PHOENIX, AZ 85004-2202			WALSH, DANIEL I	
			ART UNIT	PAPER NUMBER
			2876	

DATE MAILED: 07/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/710,315	BONALLE ET AL.	
	Examiner	Art Unit	
	Daniel I. Walsh	2876	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 April 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-53 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-53 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Receipt is acknowledged of the Amendment received on 24 April 2006.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-53 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The Examiner notes that it is unclear how a preset transaction limitation can be independent of a financial account transaction limitation. The Examiner notes that it appears the preset transaction limitation must be related to the financial account limitation, as the limitation is on the account. For example, it is unclear how a preset transaction limitation can be independent of a financial account transaction limitation because it appears that if a financial account transaction limitation has a limitation such as a maximum credit line/amount, that the proffered sample must be associated with a limitation that is related, or in compliance with the financial account transaction limitation, otherwise the credit line or maximum amount, would not be enforced.

Additionally, the Examiner notes that claims 48, 51, and 53 recite a “second proffered biometric scan sample”, which renders the claims vague/indefinite since the application and its claims are drawn towards voice print samples.

For purposes of Examination, the Examiner will interpret the claims as providing additional security though a limitation and another sample.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1-9, 12-16, 20-30, 34-34, 43, and 45-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Black (US 6,925,565), in view of Haala (US (US 2005/0005172) and Baer (US 2005/0252471).

Re claim 1, Black teaches a smartcard configured to communicate with a reader, a reader configured to communicate with the system, a biometric sensor to detect a fingerprint sample, the sensor configured to communicate with the system (FIG. 1A). Though silent to a verification

device to verify the sample, the Examiner notes that a transaction is authorized upon verification of the sample. Therefore, at the time the invention was made, it would have been obvious to have a verification device in order to verify the sample as part of the authentication (security).

Black is silent to the biometric being a voice print that is detected by a voice print sensor to verify the voice print.

The Examiner notes that there are various types of biometrics to authorize users by, including voice prints/voices. The Examiner notes it is well within the ordinary skill in the art to use voice prints. Additionally, the Examiner directs the Applicant to the relevant art cited at the end of the action, which includes references that teach that fingerprint biometrics can be replaced with other biometrics, including voice prints, thus obviating such alternative biometrics. Nonetheless, Haala teaches that various biometric characteristics, including voice samples, can be used to identify individuals (FIG. 2).

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to combine the teachings of Black with those of Haala.

One would have been motivated to do this in order to have different forms of biometric identification, well known and conventional in the art, to verify a user securely.

Black/Haala are silent to a device determining whether the proffered voice print sample is associated with a preset transaction limitation independent of a financial account transaction limitation.

Baer teaches such limitations (paragraph [0037]).

Though Baer is silent to using voice print samples, voice print samples have been discussed above, and are well known and conventional in the art for authentication purposes.

The Examiner notes that as Baer teaches additional security levels based on biometrics, and Black/Haala teach the claimed voice sample, it would have been obvious to use such teachings with those of Baer, in order to apply a specific type of biometric (voice print samples) as an alternative biometric, chosen based on system design choices, user convenience, etc.

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to combine the teachings of Black/Haala with those of Baer.

One would have been motivated to do this in order to apply different security levels associated with biometrics, to a specific voice sample biometric, for security purposes.

Re claim 2, the Examiner notes that the sensor communicates with the system via at least one of a smartcard, reader, and network (FIG. 1A of Black).

Re claim 3, it is understood that the biometric sensor is configured to facilitate a finite number of scans (one for example) in order to receive a sample (namely one).

Re claim 4, FIG. 5A+ (of Black) shows that the fingerprint biometric sensor logs at least one of a detected fingerprint sample, processed sample, and stored sample.

Re claims 5-6, Black teaches (col 6, lines 56+) that the customer record can be stored locally or remotely. The Examiner notes that though Black is silent to a datapacket stored on a database, Black teaches that the customer record can include biometric information, user information, etc. (FIG. 5A+ for example). Therefore, the Examiner notes that it would be within the skill in the art for such a collection of data can be interpreted as a data packet. It would have been obvious to store such information on a database, in order to have a well known and conventional means of storing data for quick retrieval and organization. It has been discussed above that the data can be stored remotely or locally. Accordingly, it would have been obvious

to one of ordinary skill in the art to store it on the smartcard or a remote device based on security needs.

Re claim 7, it has been discussed above that samples are received and stored for providing security/authentication. It would have been obvious that the samples would be received by an authorized receiver in order to ensure security and reliability.

Re claim 8, though Haala is silent to an audio capture device, the Examiner notes that it would have been obvious to one of ordinary skill in the art to include an audio capture device as part of the voice recognition in order to capture the audio for comparison, as is conventional in the art.

Re claim 9, it has been discussed above that an audio capture device (voice recorder/microphone/computer) is an obvious expedient to capture the voice sample as part of the processing and authorization process.

Re claim 10, such limitations are well known among voice recognition/voice processing. One would have been motivated to use such verification means, to verify that the voice sample matches.

Re claim 11, the Examiner notes that such security procedures are well known and conventional in the art for ensuring the authenticity of samples (Applicants own specification). One would have been motivated to use such procedures in order to ensure authentic samples, such as a motion detector to detect presence of an individual, to power up a device for example, to conserve power, and only activate when a user is present, as conventional in the art.

Re claim 12, the Examiner notes that the proffered sample is compared to a stored/registered sample to see if there is a match (abstract of Black).

Re claim 13, it has been discussed above that a comparison is performed. The Examiner notes that Black teaches that the reference sample can be stored remotely. Though silent to a government agency or third party vendor, as it has been taught to store remotely, it would have been an obvious expedient to store it as claimed, in order to provide a secure location for storing and accessing of the sample.

Re claim 14, the Examiner notes that as a sample is stored, it's interpreted as registered.

Re claim 15, Black teaches that a customer's account is linked to the biometric data, and can be used for payment and is linked to a credit or debit account (abstract, col 6, lines 46+).

Re claim 16, the Examiner notes that it is obvious that the system of Black would be used by a plurality of customers. As such, it would have been obvious that different people have different samples (unique), which would be associated with their different accounts.

Re claim 20, though Black is silent to the sensor providing notification upon detection of a sample, the Examiner notes that it is well within the skill in the art to provide notification that a sample has been detected, in order to provide indication to the user, that the sample was received and they don't have to keep offering a sample. As Black indicates when a sample has been authorized (transaction allowed) it would have been obvious to indicate when the sample is read/detected as a means to provide guiding information to the user. Additionally, the Examiner notes that the mere authorization of a transaction can be broadly interpreted as providing notification upon detection of a sample because authorization cannot occur unless the sample was detected.

Re claim 21, it has been discussed above that the device facilitates a financial transaction.

Re claims 22 and 34, though silent to secondary security procedures, the Examiner notes that such procedures such as PINs, codes, passwords, etc. are well known and conventional in the art. One would have been motivated to use such procedures for increased security.

Re claim 23, Black teaches a method for facilitating biometric security in a smartcard/reader system comprising providing a biometric to a biometric sensor communicating with the system to initiate verification of a biometric for facilitating authorization of a transaction (abstract).

Black is silent to the biometric being a voice print.

Haala teaches such limitations, as discussed above.

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to combine the teachings of Black with those of Haala.

One would have been motivated to do this to have an alternative biometric that is able to authenticate an individual.

Re claim 24, the Examiner has interpreted the storing of the fingerprint sample with the system as an authorized sample receiver.

Re claim 25, registering includes proffering a biometric (abstract, FIG. 5A of Black).

Re claim 26, the limitations have been discussed above re claim 8.

Re claim 27, Black teaches that a sample is stored and that proffered samples are compared and verified to complete a transaction (abstract).

Re claim 28, Black teaches the step of proffering a biometric to a sensor communicating with the system to initiate verification, as discussed above. As discussed above, Black teaches that the information can be stored on the smartcard itself or remotely, depending on the desired

security. Though silent to a database, a database is an obvious expedient as discussed above.

Accordingly, it would have been obvious to process database information contained in at least one of the smartcard, reader, sensor, server, and reader system as a means to authenticate/verify a user.

Re claim 29, Black teaches comparing the proffered sample with stored sample (abstract).

Re claims 30, the limitations have been discussed above, re claim 13.

Re claim 32, the Examiner notes that such security procedures are well known and conventional in the art for ensuring the authenticity of samples (Applicants own specification). One would have been motivated to use such procedures in order to ensure authentic samples. The limitations have been discussed above re claim 11.

Re claim 33, the Examiner notes that as the system is used with more than one user (therefore more than one sample) it would have been obvious to detect/process/store a second fingerprint sample (of additional users). Additionally, the Examiner notes that additional PINs/biometric samples are well known and conventional in the art for providing additional security in the instance of only one user.

Re claim 34, the limitations have been discussed above.

Re claim 35, Black teaches a method of facilitating biometric security in a smartcard reader transaction system comprising detecting a proffered biometric at a sensor communicating with the system to obtain a proffered sample, verifying the sample, and authorizing a transaction to proceed upon verification of the sample (abstract, and as discussed above).

Black is silent to a voice print sample as the biometric sample.

Haala teaches such limitations as discussed above.

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to combine the teachings of Black with those of Haala.

One would have been motivated to do this in order to have an alternative biometric means to authenticate a user,

Re claim 36, Black teaches that the sample is detected at a sensor configured to communicate with the system via one of a smartcard/reader/network (FIG. 1A-1C).

Re claim 37, the limitations have been discussed above re claims 8-10.

Re claim 38, Black teaches detecting/storing/processing the sample (abstract).

Re claim 39, the Examiner notes that it would have been obvious to receive a finite number of sample during a transaction (abstract), namely, one, for example, for a transaction.

Re claim 40, the examiner notes that it is obvious that the samples are logged/stored at least temporarily, in order for them to be verified (stored in a buffer for example during comparison). Additionally, the Examiner notes that storing/logging signatures, transaction details, signatures associated with a transaction (more permanently then in a buffer) are well known and conventional in the art for record keeping purposes/security.

Re claim 41, as discussed above, it would have been obvious to one of ordinary skill in the art to detect/process/store a second sample, when the system is used by different people with different accounts and samples. The limitations have been discussed above.

Re claim 42, the Examiner notes that such security procedures are well known and conventional in the art for ensuring the authenticity of samples (Applicants own specification). One would have been motivated to use such procedures in order to ensure authentic samples. Re

claim 43, the comparison of a proffered sample to a stored/registered sample has been discussed above.

Re claim 44, the limitations have been discussed above re claims 8-10.

Re claim 45, the Examiner notes that the proffered biometric is indeed compared with a sample of at least one of a criminal, terrorist, and card member, as the sample is compared to a current card members sample, to authorize the transaction.

Re claim 46, verifying the sample using information contained on one of a local database/remote database/third party controlled database would have been an obvious expedient in instances where the data is stored remote from the smartcard. The biometric would be verified by using information contained in a database, as a preferred means to organize data for efficient and easy storage and retrieval (remote or local).

Re claim 47, the verification of a sample using a protocol/sequence controller (interpreted as a processor) has been discussed above.

Re claims 48, 50, and 52, the limitations have been discussed by Baer above.

4. Claims 10, 11, 31, 32, 42, and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Black/Haala, as discussed above, in view of Sharma et al. (US 6,480,825).

The teachings of Black/Haala have been discussed above.

Black/Haala is silent to verifying the voice print in at least one of the time domain, energy content across the frequency domain, stochastic models of the voice print, and template models of the voice print. Black/ Haala is silent to detecting/verifying audio noise associated with an electronic device.

Sharma et al. teaches such limitations (abstract). Sharma et al. teaches detecting/verifying audio noise (FIG. 7 which teaches an audio watermark (generated by an electronic device) that is detected and verified to verify the sample. Additionally, channel characteristics also are detecting/verifying audio noise generated by an electronic device (abstract).

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to combine the teachings of Black/Haala with those of Sharma et al.

One would have been motivated to do this in order to authenticate a voice print as real.

5. Claims 16, 33, 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Black/Haala, as discussed above, in view of Martizen et al. (US 2002/0191816).

The teachings of Black/Haala have been discussed above.

Black/Haala is silent to different samples (of the same person) associated with different one of personal information, credit card information, etc. as claimed.

Martizen et al. teaches different registered biometric samples are associated with different personal information (different fingers with different accounts) (FIG. 6A).

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to combine the teachings of Black/Haala with those of Martizen et al.

One would have been motivated do to this to permit multiple accounts to be security accessed with different biometric samples, for user convenience and security.

6. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Black/Martizen et al., as discussed above, in view of Moebs et al (US 2005/0065872).

The teachings of Black/Haala/Martizen et al. have been discussed above.

Black/Haala/Martizen et al. are silent to primary and secondary associating.

The Examiner notes that such associating is well known in the art (line of credit, for example). Specifically, Moebs et al. teaches that a customer can avoid overdraft by preauthorizing the financial institution to tie the customers' checking account to one or more of the customers other accounts (paragraph [0017]).

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to combine the teachings of Black/Haala/Martizen with those of Moebs et al.

One would have been motivated to do this in order to provide for overdraft protection, for example.

7. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Black/Haala in view of Teicher (US 6,257,486).

Black/Haala is silent to mutual authentication upon verification of the biometric sample.

The Examiner notes that mutual authentication is well known and conventional in the art, as a security measure, to ensure that a valid reading device and device are communicating. It would have been obvious to one of ordinary skill in the art to authenticate upon verification of the sample, in order to ensure that the smartcard and reader are authentic and authorized to communicate with each other. Specifically, Teicher teaches a contactless smart card that being mutual authentication after an input (PIN) is entered (col 7, lines 35+).

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to combine the teachings of Black with those of Teicher.

One would have been motivated to do this in order to employ well known security measures.

8. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Black/Haala in view of Goodman (US 2002/0043566).

The teachings of Black/Haala have been discussed above.

Black teaches that the transaction is blocked when the biometrics do not match, as is conventional in the art, but Black is silent to deactivation upon rejection of the sample.

The Examiner notes that it is well known and conventional in the art for card to be disabled, as a security measure, if a predetermined amount of failed attempts are detected, for example. Specifically, Goodman et al. teaches deactivation of a card if a predetermined amount of incorrect PIN attempts are detected (paragraph [0029]).

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to combine the teachings of Black/Haala with those of Goodman et al.

One would have been motivated to do this in order to increase system security.

Though Goodman et al. is silent to a biometric input, the Examiner notes that Goodman et al. is relied upon for teaching disabling of access when a matching input is not received. It would have been obvious to disable the smartcard when biometrics don't match (biometrics replacing PIN input, as a more secure alternative).

9. Claims 4, 22, 34, and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Black/Haala, as discussed above, in view of Black (US 2005/0122209).

The teachings of Black/Haala have been discussed above.

Re claims 22 and 34, Black/Haala is silent to secondary security procedures. Re claims 4 and 40, Black is silent to logging each proffered fingerprint sample.

Black '209 teaches such procedures through signature verification (abstract). Black '209 teaches storing of digital and electronic signature for record keeping purposes (paragraph [0125]).

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to combine the teachings of Black/Haala with those of Black '209.

One would have been motivated to do this for increased security and record keeping purposes.

10. Claims 49, 51, and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Black/Haala/Baer, as discussed above, in view of Wallace (US 5,988,497).

The teachings of Black/Haala/Baer have been discussed above.

Black/Haala/Baer are silent to a second biometric scan sample to override the preset transaction limitation.

Wallace teaches multiple tiers of authentication in order to authenticate a transaction that meets certain conditions (abstract).

At the time the invention was made, it would have been obvious to one of ordinary skill in the art to combine the teachings of Black/Baer with those of Wallace.

One would have been motivated to do this to provide more authentication for certain transactions, as it is known in the art that additional samples can provide additional security. The replacing of the additional PINs of Wallace, by an alternative means of providing security, such as biometrics (voice prints), is an obvious expedient to provide more secure transactions, as voice prints are a conventional means of authentication, and can replace PINs, motivated by design choice, system constraints, user convenience, etc.

Response to Arguments

11. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection. The Examiner has cited the art to Baer for teachings of a preset transaction limitation independent of a financial account transaction limitation and has cited Wallace for teaching of an additional sample, both discussed above.

Conclusion

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

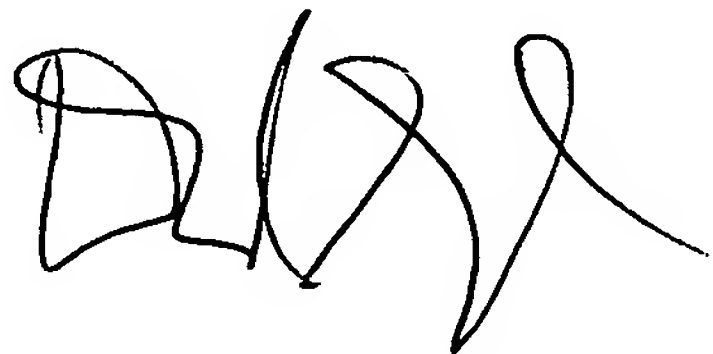
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel I. Walsh whose telephone number is (571) 272-2409. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee can be reached on (571) 272-2398. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Daniel I Walsh
Examiner
Art Unit 2876
7-3-06

A handwritten signature in black ink, appearing to be 'DW', located below the typed name and title.